

Abstract

The Chest-positioner/pad Cardio Pulmonary Resuscitation System (CCPRS) provides improved resuscitation during one-person or two-person CPR. The simple, compact, portable and cost-effective system provides for manual, mechanical or electrical driven external chest compressions via a socket connection to a chest-positioner/pad unit. The chest-positioner/pad unit provides greater control of compression positioning providing adequate and reproducible chest compressions while preventing rib fractures and damage to vital internal organs. A module gives providers feedback to enable a provider to apply an appropriate compressive force in an appropriate direction, recurringly under emergency conditions. The present invention also provides improved blood circulation, oxygenation and gas exchange by expanding the chest past its normal relaxation point during diastole.

Providers are able to administer adequate CPR for longer periods of time with reduced or minimal effort while improving survivability of cardiac arrest victims.